



Product Specification

SPECIFICATION FOR APPROVAL

) Preliminary Specification

(
) Final Specification

Title			15.4" WXGA TFT LCD								
BUYER	DELL		SUPPLIER	LG.Philips LCD Co., Ltd.							
MODEL			*MODEL	LP154W01							

^{*}When you obtain standard approval, please use the above model name without suffix

TLA3

Suffix

SIGNATURE	DATE
	<u> </u>
Please return 1 copy for your your signature and comment	

APPROVED BY)ATE						
J. H. Lee / S.Manager							
REVIEWED BY							
S.R.Kim / Manager							
PREPARED BY							
B.H.Kim / Engineer							
Product Engineering Dept. LG. Philips LCD Co., Ltd							

1 / 27 Ver. 1.0 Mar,28, 2006





Product Specification

Contents

No	ITEM	Page
	COVER	1
	CONTENTS	2
	RECORD OF REVISIONS	3
1	GENERAL DESCRIPTION	4
2	ABSOLUTE MAXIMUM RATINGS	5
3	ELECTRICAL SPECIFICATIONS	
3-1	ELECTRICAL CHARACTREISTICS	6
3-2	INTERFACE CONNECTIONS	8
3-3	SIGNAL TIMING SPECIFICATIONS	9
3-4	SIGNAL TIMING WAVEFORMS	9
3-5	COLOR INPUT DATA REFERNECE	10
3-6	POWER SEQUENCE	11
4	OPTICAL SFECIFICATIONS	12
5	MECHANICAL CHARACTERISTICS	16
6	RELIABLITY	20
7	INTERNATIONAL STANDARDS	
7-1	SAFETY	21
7-2	EMC	21
8	PACKING	1
8-1	DESIGNATION OF LOT MARK	22
8-2	PACKING FORM	22
9	PRECAUTIONS	23
Α	APPENDIX. Enhanced Extended Display Identification Data	25
		1





Product Specification

RECORD OF REVISIONS

Revision No	Revision Date	Page	Description	EDID ver
0.0	Dec.14. 2005	-	First Draft	V0.0
0.1	Jan.06. 2006		EDID Data update	V0.1
0.2	Feb.16.2006		Wire color & mechanical blueprint update	
1.0	Mar. 28.2006		Final CAS	
		6	Change the electrical characteristics	
Ver. 1.0			Mar,28, 2006	3 / 27





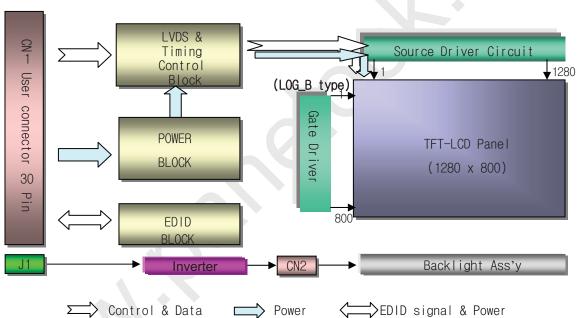
Product Specification

1. General Description

The LP154W01 is a Color Active Matrix Liquid Crystal Display with an integral Cold Cathode Fluorescent Lamp (CCFL) backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally white mode. This TFT-LCD has 15.4 inches diagonally measured active display area with WXGA resolution(1280 horizontal by 800 vertical pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 6-bit gray scale signal for each dot, thus, presenting a palette of more than 262,144 colors.

The LP154W01 has been designed to apply the interface method that enables low power, high speed, low EMI.

The LP154W01 is intended to support applications where thin thickness, low power are critical factors and graphic displays are important. In combination with the vertical arrangement of the sub-pixels, the LP154W01 characteristics provide an excellent flat display for office automation products such as Notebook PC.



General Features

Active Screen Size	15.4 inches diagonal
Outline Dimension	344.0 (H) × 222.0 (V) × 6.5(D, max) mm
Pixel Pitch	0.25875 mm × 0.25875 mm
Pixel Format	1280 horiz. by 800 vert. Pixels RGB strip arrangement
Color Depth	6-bit, 262,144 colors
Luminance, White	170 cd/m²(Min.) , 5 point
Power Consumption	Total 5.52 Watt(Typ.) @ LCM circuit 1.1 Watt(Typ.), B/L input 4.42 Watt(Typ.)
Weight	565g (Typ.) w/o inverter
Display Operating Mode	Transmissive mode, normally white
Surface Treatment	Hard coating(3H) Anti-glare treatment of the front polarizer

Ver. 1.0 Mar,28, 2006 4 / 27





Product Specification

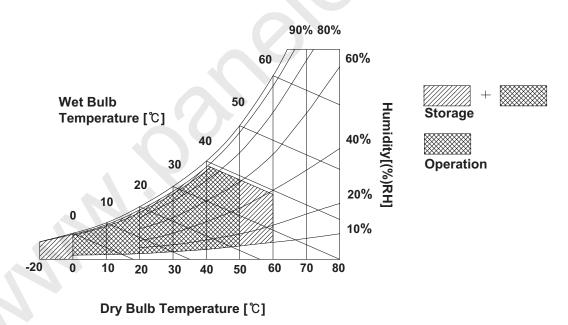
2. Absolute Maximum Ratings

The following are maximum values which, if exceeded, may cause faulty operation or damage to the unit.

Table 1. ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Val	ues	Units	Notes		
Farameter	Syllibol	Min	Max	Offics	Notes		
Power Input Voltage	VCC	-0.3	4.0	Vdc	at 25 ± 5°C		
Operating Temperature	Тор	0	50	°C	1		
Storage Temperature	Нѕт	-20	60	°C	1		
Operating Ambient Humidity	Нор	10	90	%RH	1		
Storage Humidity	Hst	10	90	%RH	1		

Note: 1. Temperature and relative humidity range are shown in the figure below. Wet bulb temperature should be 39°C Max, and no condensation of water.







Global LCD Panel Exchange Center

LP154W01 Liquid Crystal Display

Product Specification

3. Electrical Specifications

3-1. Electrical Characteristics

The LP154W01requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input which powers the CCFL, is typically generated by an inverter. The inverter is an external unit to the LCD.

Table 2. ELECTRICAL CHARACTERISTICS

Parameter	Symbol		Linit	Notes		
Parameter	Symbol	Min	Тур	Max	Unit	Notes
MODULE :					<i></i>	
Power Supply Input Voltage	VCC	3.0	3.3	3.6	V_{DC}	
Power Supply Input Current	I _{cc}	275	320	365	mA	1
Power Consumption	Pc	-	1.1	1.21	Watt	1
Differential Impedance	Zm	90	100	110	Ohm	2
LAMP:						
Operating Voltage	V_{BL}	688 (6.8mA)	680 (6.5mA)	815 (3.5mA)	V _{RMS}	3
Operating Current	I _{BL}	3.5	6.5	6.8	mA _{RMS}	4
Power Consumption	P _{BL}	-	4.42	4.68		9
Operating Frequency	f _{BL}	45	60	80	kHz	7
Discharge Stabilization Time	Ts	-	-	3	Min	5
Life Time		12,000	-		Hrs	6
Established Starting Voltage at 25℃ at 0 ℃	Vs			1170 1400	V_{RMS}	8

Note)

- 1. The specified current and power consumption are under the Vcc = 3.3V, 25°C, fv = 60Hz condition whereas full black pattern is displayed and fv is the frame frequency.
- 2. This impedance value is needed to proper display and measured form LVDS Tx to the mating connector.
- 3. The variance of the voltage is \pm 10%.
- 4. The typical operating current is for the typical surface luminance (L_{WH}) in optical characteristics.
- 5. Define the brightness of the lamp after being lighted for 5 minutes as 100%, Ts is the time required for the brightness of the center of the lamp to be not less than 95%.
- 6. The life time is determined as the time at which brightness of lamp is 50% compare to that of initial value at the typical lamp current.
- 7. The output of the inverter must have symmetrical(negative and positive) voltage waveform and symmetrical current waveform.(Asymmetrical ratio is less than 10%) Please do not use the inverter which has asymmetrical voltage and asymmetrical current and spike wave. Lamp frequency may produce interface with horizontal synchronous frequency and as a result this may cause beat on the display. Therefore lamp frequency shall be as away possible from the horizontal synchronous frequency and from its harmonics in order to prevent interference.
- 8. The voltage above VS should be applied to the lamps for more than 1 second for start-up. Otherwise, the lamps may not be turned on. The used lamp current is the lamp typical current.
- 9. The lamp power consumption shown above does not include loss of external inverter. The applied lamp current is a typical one.

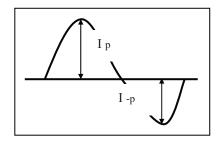


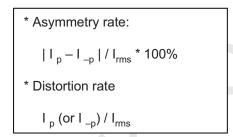


Product Specification

Note)

- 9. Requirements for a system inverter design, which is intended to have a better display performance, a better power efficiency and a more reliable lamp, are following. It shall help increase the lamp lifetime and reduce leakage current.
 - a. The asymmetry rate of the inverter waveform should be less than 10%.
 - b. The distortion rate of the waveform should be within $\sqrt{2 \pm 10\%}$.
 - * Inverter output waveform had better be more similar to ideal sine wave.





Do not attach a conducting tape to lamp connecting wire. If the lamp wire attach to a conducting tape, TFT-LCD Module has a low luminance and the inverter has abnormal action. Because leakage current is occurred between lamp wire and conducting tape.





Product Specification

3-2. Interface Connections

This LCD employs two interface connections, a 30 pin connector is used for the module electronics interface and the other connector is used for the integral backlight system.

The electronics interface connector is a model MDF76LBRW-30S-1H manufactured by Hirose.

Table 3. MODULE CONNECTOR PIN CONFIGURATION (CN1)

Pin	Symbol	Description	Notes
1	GND	Ground	
2	VCC	Power Supply, 3.3V Typ.	
3	vcc	Power Supply, 3.3V Typ.	
4	V EEDID	DDC 3.3V power	
5	NC NC	Reserved for supplier test point	1, Interface chips 1.1 LCD: KE5M5U2455(LCD Controller)
6	CIK EEDID	DDC Clock	including LVDS Receiver
7	DATA EEDID	DDC Data	4.0.0
8	R _{IN} 0-	Negative LVDS differential data input	1.2 System : THC63LVD823 or equivalent * Pin to Pin compatible with THINE LVDS
9	R _{IN} 0+	Positive LVDS differential data input	
10	GND	Ground	2. Connector 2.1 LCD : MDF76LBRW-30S-1H,Hirose or
11	R _{IN} 1-	Negative LVDS differential data input	FI-XB30SRL-HF11, JAE
12	R _{IN} 1+	Positive LVDS differential data input	equivalent. Locking design
13	GND	Ground	2.2 Mating: FI-X30M or equivalent.
14	R _{IN} 2-	Negative LVDS differential data input	2.3 Connector pin arrangement
15	R _{IN} 2+	Positive LVDS differential data input	30 1
16	GND	Ground	
17	CLKIN-	Negative LVDS differential clock input	
18	CLKIN+	Negative LVDS differential clock input	, , , , , , , , , , , , , , , , , , ,
19	GND	Ground	[LCD Module Rear View]
20	NC	No connect	
21	NC	No connect	
22	NC	No connect	
23	NC	No connect	
24	NC	No connect	
25	NC	No connect	
26	NC	No connect	
27	NC	No connect	
28	NC	No connect	
29	NC	No connect	
30	NC	No connect	

The backlight interface connector is a model BHSR-02VS-1, manufactured by JST or Compatible. The mating connector part number is SM02B-BHSS-1 or equivalent.

Table 5. BACKLIGHT CONNECTOR PIN CONFIGURATION (J3)

Pin	Symbol	Description	Notes				
1	HV	Power supply for lamp (High voltage side)	1				
2	LV	Power supply for lamp (Low voltage side)	1				

Notes: 1. The high voltage side terminal is colored blue and the low voltage side terminal is yellow.





Product Specification

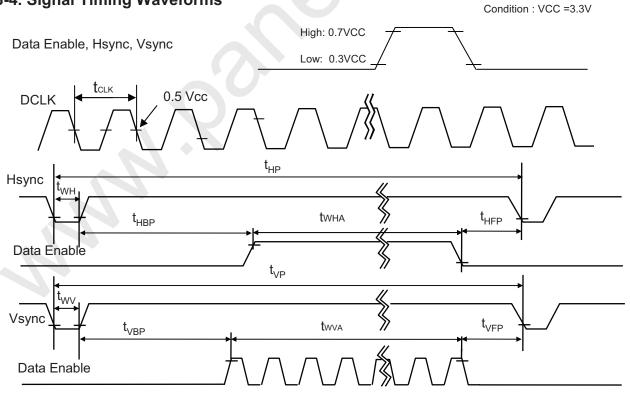
3-3. Signal Timing Specifications

This is the signal timing required at the input of the User connector. All of the interface signal timing should be satisfied with the following specifications and specifications of LVDS Tx/Rx for its proper operation.

Table 6. TIMING TABLE

			, U. TIMIII 1 U	.,			
ITEM	Symbol		Min	Тур	Max	Unit	Note
DCLK	Frequency	fclk	66.9	71.1	75.4	MHz	
Hsync	Period	tHP	1380	1440	1496		
	Width	twn	16	32	40	tclk	
	Active	twha	1280	1280	1280		
Vsync	Period	tvp	808	823	840		
	Width	tw∨	2	6	6	tHP	
	Active	twva	800	800	800		
Data	Horizontal back porch	tHBP	68	80	120	touk	
Enable	Horizontal front porch	tHFP	16	48	56	tclk	
	Vertical back porch	tvbp	5	15	32	tup	
	Vertical front porch	tvfp	1	2	2	tHP	









Product Specification

3-5. Color Input Data Reference

The brightness of each primary color (red,green and blue) is based on the 6-bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

Table 7. COLOR DATA REFERENCE

									Inp	out Co	olor D	ata							
	Color			RE	ΞD					GRE	EN					BL	UE		
`			3				LSB	MS	3				LSB	MSI	3				LSB
		R 5	R 4	R 3	R 2	R 1	R 0	G 5	G 4	G 3	G 2	G 1	G 0	B 5	B 4	В 3	B 2	B 1	В 0
	Black	0	0				0	0	0	0	0	0	0	0	0	0		0	0
	Red	1	1	.1	1	1	1	0	0		0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
Basic	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	. 1	1	1
Color	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	RED (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED (01)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
RED																			
	RED (62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED (63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN (01)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
GREEN																	 		
	GREEN (62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	GREEN (63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	BLUE (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BLUE (01)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
BLUE		ļ			 														
	BLUE (62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	BLUE (63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

Ver. 1.0 Mar,28, 2006 10 / 27







Product Specification

3-6. Power Sequence

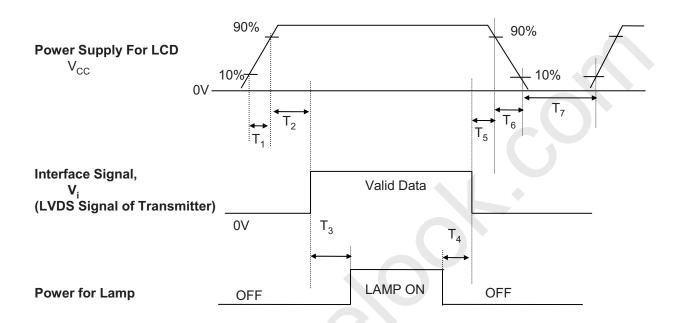


Table 8. POWER SEQUENCE TABLE

Parameter		Value		Units
	Min.	Min. Typ. Max.		
T ₁	-	1	10	(ms)
T ₂	0	-	50	(ms)
T ₃	200	-	-	(ms)
T_4	200	-	-	(ms)
T ₅	0	-	50	(ms)
T ₆	0	-	10	(ms)
T ₇	400	-	-	(ms)

Note)

- 1. Please avoid floating state of interface signal at invalid period.
- 2. When the interface signal is invalid, be sure to pull down the power supply for LCD VCC to 0V.
- 3. Lamp power must be turn on after power supply for LCD and interface signal are valid.



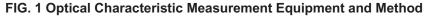


Product Specification

4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 30 minutes in a dark environment at 25°C. The values specified are at an approximate distance 50cm from the LCD surface at a viewing angle of Φ and Θ equal to Φ 0°.

FIG. 1 presents additional information concerning the measurement equipment and method.



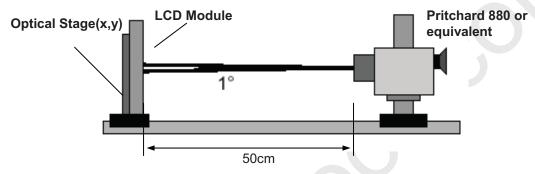


Table 9. OPTICAL CHARACTERISTICS

Ta=25°C, VCC=3.3V, fv=60Hz, f_{CLK}= 71.1MHz, lout = 6.5mA

		Ta-25 0, VO	, OLK			
Parameter	Symbol		Values	1	Units	Notes
	,,,,,,	Min	Тур	MAx		
Contrast Ratio	CR	200	300	L	L	11
Surface Luminance, white	L_WH	145	170		cd/m ²	2
Luminance Variation	δ_{WHITE}	-	1.4	1.6		3
Response Time						4
Rise Time+Decay Time	$Tr_{R+}Tr_{D}$	-	30	45	ms	
Color Coordinates						±0.03
RED	RX	0.560	0.590	0.620		
	RY	0.314	0.344	0.374]	
GREEN	GX	0.294	0.324	0.354		
	GY	0.505	0.535	0.565		
BLUE	ВХ	0.127	0.157	0.187		
	BY	0.108	0.138	0.168		
WHITE	WX	0.283	0.313	0.343		
	WY	0.299	0.329	0.359]	
Viewing Angle					[5
x axis, right(Φ=0°)	Θr	40		-	degree	
x axis, left (Φ=180°)	Θl	40		-	degree	
y axis, up (Φ=90°)	Θu	10		-	degree	
y axis, down (Φ=270°)	Θd	30		-	degree	
Gray Scale						6

Ver. 1.0 Mar,28, 2006 12 / 27





Global LCD Panel Exchange Center

LP154W01 Liquid Crystal Display

Product Specification

Note)

1. Contrast Ratio(CR) is defined mathematically as

Surface Luminance with all white pixels

Contrast Ratio =

Surface Luminance with all black pixels

- 2. Surface luminance is the 5point (1~5) average across the LCD surface 50cm from the surface with all pixels displaying white. For more information see FIG 2. When $I_{BL} = 6.5 \text{mA}$, $L_{WH} = 170 \text{cd/m}^2 \text{(min.)}$
- 3. Luminance % uniformity is measured for 13 point For more information see FIG 2. δ WHITE = Maximum(LN1,LN2, LN13) \div Minimum(LN1,LN2, LN13)
- 4. Response time is the time required for the display to transition from white to black (rise time, Tr_R) and from black to white (Decay Time, Tr_D). For additional information see FIG 3.
- 5. Viewing angle is the angle at which the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see FIG 4.
- 6. Gray scale specification

* $f_V = 60 Hz$

Gray Level	Luminance [%] (Typ)					
LO	0.19					
L7	0.65					
L15	3.77					
L23	11.0					
L31	22.5					
L39	36.1					
L47	53.2					
L55	74.1					
L63	100					



Global LCD Panel Exchange Center

LP154W01 Liquid Crystal Display

Product Specification

FIG. 2 Luminance

<measuring point for surface luminance & measuring point for luminance variation>

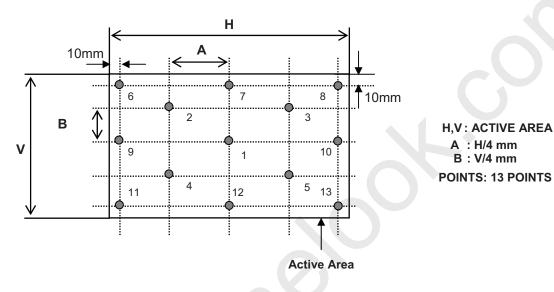
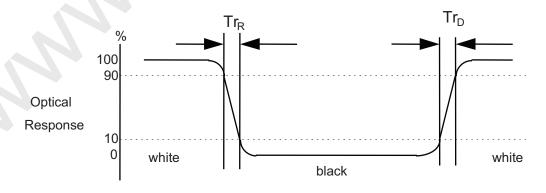


FIG. 3 Response Time

The response time is defined as the following figure and shall be measured by switching the input signal for "black" and "white".



14 / 27 Ver. 1.0 Mar, 28, 2006

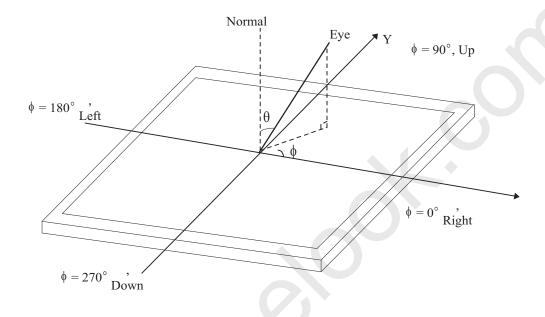




Product Specification

FIG. 4 Viewing angle

<Dimension of viewing angle range>







Product Specification

5. Mechanical Characteristics

The contents provide general mechanical characteristics for the model LP154W01. In addition the figures in the next page are detailed mechanical drawing of the LCD.

	Horizontal	344.0 ± 0.5mm				
Outline Dimension	Vertical	222.0 ± 0.5mm				
	Depth	6.2 ± 0.3mm				
Bezel Area	Horizontal	335.0 ± 0.5mm				
bezei Area	Vertical	210.7 ± 0.5mm				
Active Dieplay Area	Horizontal	331.2 mm				
Active Display Area	Vertical	207.0 mm				
Weight	565g (Typ) w/o inverter					
Surface Treatment	Surface Treatment Hard coating(3H) Anti-glare treatment of the front polarizer					

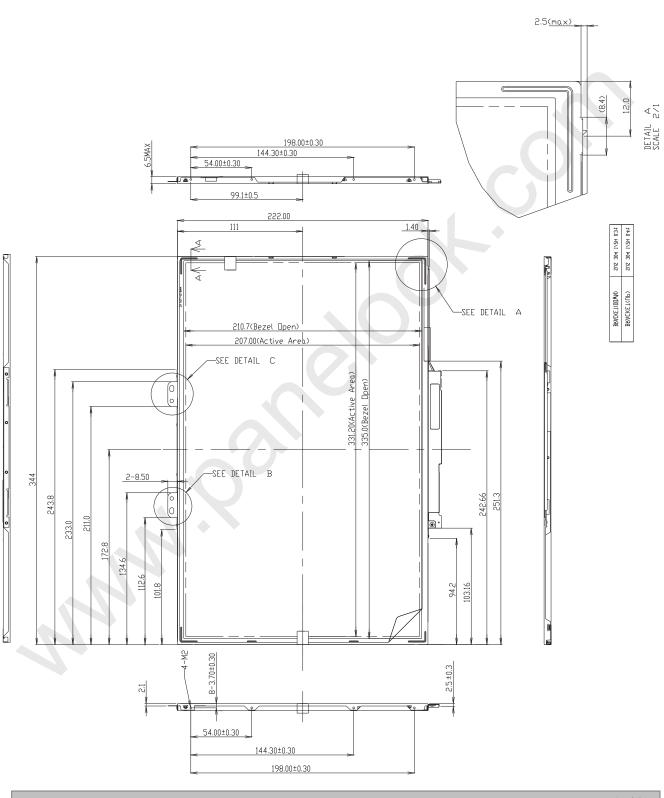




Product Specification

<FRONT VIEW>

Note) Unit:[mm], General tolerance: $\pm\,0.5\text{mm}$



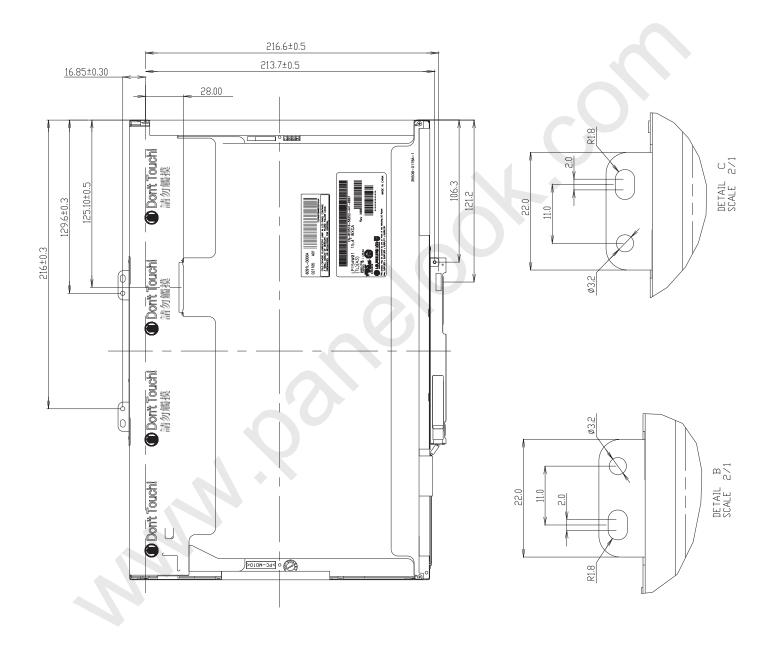




Product Specification

<REAR VIEW>

Note) Unit:[mm], General tolerance: \pm 0.5mm



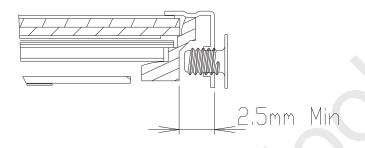
Ver. 1.0 Mar,28, 2006 18 / 27





Product Specification

[DETAIL DESCRIPTION OF SIDE MOUNTING SCREW]



*SCREW(8EA) TORQUE: 2.5kgf.cm max *Screw Hole Depth: 2.5mm min *Screw Length: max 2.5, min2.0

Note) Unit:[mm], General tolerance: ± 0.5mm

19 / 27 Ver. 1.0 Mar, 28, 2006





Product Specification

6. Reliability

Environment test condition

No.	Test Item	Conditions
1	High temperature storage test	Ta= 60°C 240h
2	Low temperature storage test	Ta= -20°C 240h
3	High temperature operation test	Ta= 50°C 50%RH 240h
4	Low temperature operation test	Ta= 0°C 240h
5	Vibration test (non-operating)	Random, 10 ~ 300 ~ 10Hz, 1.0G Each Direction, 30minute
6	Shock test (non-operating)	Half sine wave, 180G, 2ms one shock of each face (i.e. run 180G 2ms for all six faces)
7	Altitude operating storage / shipment	0 - 10,000 feet(3,048m) 0 - 40,000 feet(12,192m)

[{] Result Evaluation Criteria }

There should be no change which might affect the practical display function when the display quality test is conducted under normal operating condition.





Product Specification

7. International Standards

7-1. Safety

a) UL 60950-1:2003, First Edition, Underwriters Laboratories, Inc.,

Standard for Safety of Information Technology Equipment.

b) CAN/CSA C22.2, No. 60950-1-03 1st Ed. April 1, 2003, Canadian Standards Association, Standard for Safety of Information Technology Equipment.

c) EN 60950-1:2001, First Edition,

European Committee for Electrotechnical Standardization(CENELEC)

European Standard for Safety of Information Technology Equipment.

7-2. EMC

- a) ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment in the Range of 9kHZ to 40GHz. "American National Standards Institute(ANSI), 1992
- b) C.I.S.P.R. "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." International Special Committee on Radio Interference.
- c) EN 55022 "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." European Committee for Electrotechnical Standardization.(CENELEC), 1998 (Including A1: 2000)





Product Specification

8. Packing

8-1. Designation of Lot Mark

a) Lot Mark

А	В	С	D	Е	F	G	Н	I	J	K	L	М	
---	---	---	---	---	---	---	---	---	---	---	---	---	--

A,B,C: SIZE(INCH)

E: MONTH $F \sim M$: SERIAL NO.

Note

1. YEAR

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Mark	1	2	3	4	5	6	7	8	9	0

2. MONTH

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mark	1	2	3	4	5	6	7	8	9	Α	В	С

D:YEAR

b) Location of Lot Mark

Serial No. is printed on the label. The label is attached to the backside of the LCD module. This is subject to change without prior notice.

8-2. Packing Form

a) Package quantity in one box : 20 pcs

b) Box Size : 441mm ×373mm × 348mm





Global LCD Panel Exchange Center

LP154W01 Liquid Crystal Display

Product Specification

9. PRECAUTIONS

Please pay attention to the followings when you use this TFT LCD module.

9-1. MOUNTING PRECAUTIONS

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to the resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth.(Some cosmetics are detrimental to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage: V=± 200mV(Over and under shoot voltage)
- (2) Response time depends on the temperature.(In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time(required time that brightness is stable after turned on) becomes longer.
- (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimized the interference.







Product Specification

9-3. ELECTROSTATIC DISCHARGE CONTROL

Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly.

9-4. PRECAUTIONS FOR STRONG LIGHT EXPOSURE

Strong light exposure causes degradation of polarizer and color filter.

9-5. STORAGE

When storing modules as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5°C and 35°C at normal humidity.
- (2) The polarizer surface should not come in contact with any other object. It is recommended that they be stored in the container in which they were shipped.

9-6. HANDLING PRECAUTIONS FOR PROTECTION FILM

- (1) When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) The protection film is attached to the polarizer with a small amount of glue. If some stress is applied to rub the protection film against the polarizer during the time you peel off the film, the glue is apt to remain on the polarizer.
 - Please carefully peel off the protection film without rubbing it against the polarizer.
- (3) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the polarizer after the protection film is peeled off.
- (4) You can remove the glue easily. When the glue remains on the polarizer surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.





Product Specification

APPENDIX A. Enhanced Extended Display Identification Data (EEDID™) 1/3(TBD)

LP154W01-TLA3 E-EDID DATA (ver0.1)

2006-01-06

		PIS4WUI-ILAS E-EDID DATA (Vei	<u> </u>				
Byte#	Byte#		Va	alue	Va	alue	
(decimal)	(HEX)	Field Name and Comments	(H	EX)	(bir	nary)	
0	00	Header	0	0	0000	0000	
1	01	Header	Ť	F	1111	1111	
2	02	Header	F	F	1111	1111	
3	03	Header	F	F	1111	1111	Header
4	04	Header	F	F	1111	1111	
5	05	Header	F	F	1111	1111	
6	06	Header	F	F	1111	1111	
7	07	Header	0	0	0000	0000	
8		EISA manufacturer code(3 Character ID) = LPL	3	2	0011	0010	
9	09	EISA manufacture code (Compressed ASCII)	0	С	0000	1100	
10	0A	Panel Supplier Reserved - Product code	0	0	0000	0000	
11	0B	Panel Supplier Reserved - Product code	Α	9	1010	1001	
12	OC	LCD Module Serial No. = 0 (If not used)	0	0	0000	0000	Vender/
13	0D	LCD Module Serial No. = 0 (If not used)	0	0	0000	0000	Product ID
14	0E	LCD Module Serial No. = 0 (If not used)	0	0	0000	0000	
15	0F	LCD Module Serial No. = 0 (If not used)	0	0	0000	0000	
16	10	Week of Manufacture = 00	0	0	0000	0000	
17	11	Year of Manufacture = 2006	1	0	0001	0000	
18	12	EDID Structure version # = 1	0	1	0000	0001	EDID Version/
19	13	EDID Revision # = 3	0	3	0000	0011	Revision
20	14	Video Input Definition = Digital I/P,non TMDS CRGB	8	0	1000	0000	
21	15	Max Himage size(cm) = 33.12cm(33)	2	1	0010	0001	Display
22	16	Max V image size(cm) = 20.70cm(21)	1	5	0001	0101	Parameter
23	17	Display gamma =2.2	7	8	0111	1000	
24	18	Feature support(DPMS) = Active off, RGB Color	0	А	0000	1010	
25 26	19 1A	Red/Green low Bits	1	F 0	0000	0000	
27	1B	Blue/White Low Bits Red X = 0.590	9	7	1001	0111	
28	1C	Red Y = 0.344	5	8	0101	1000	
29	1D	Green X = 0.324	5	2	0101	0010	Color
30	1E	Green Y = 0.535	8	8	1000	1000	Characteristic
31	1F	Blue X = 0.157	2	8	0010	1000	
32	20	Blue Y = 0.138	2	3	0010	0011	
33	21	White X = 0.313	5	0	0101	0000	
34	22	White Y = 0.329	5	4	0101	0100	
35	23	Established timings 1 (00h if not used)	0	0	0000	0000	Established
36	24	Established timings 2 (00h if not used)	0	0	0000	0000	Timings
37	25	Manufacturer's timings (00h if not used)	0	0	0000	0000	
38	26	Standard Timing Identification 1 was not used	0	1	0000	0001	
39	27	Standard Timing Identification 1 was not used	0	1	0000	0001	
40	28	Standard Timing Identification 2 was not used	0	1	0000	0001	
41	29	Standard Timing Identification 2 was not used	0	1	0000	0001	
42	2A	Standard Timing Identification 3 was not used	0	1	0000	0001	
43	2B	Standard Timing Identification 3 was not used	0	1	0000	0001	
44	2C	Standard Timing Identification 4 was not used	0	1	0000	0001	Standard
45	2D	Standard Timing Identification 4 was not used	0	1	0000	0001	Timing ID
46	2E	Standard Timing Identification 5 was not used	0	1	0000	0001	
47	2F	Standard Timing Identification 5 was not used	0	1	0000	0001	
	30	Standard Timing Identification 6 was not used	0	1	0000	0001	
48	50	0 11 11 11 11 11 11 11 11 11 11 11 11 11	+-				
48		Standard Timing Identification 6 was not used	0	1 1	0000	0001	
48 49	31	Standard Timing Identification 6 was not used Standard Timing Identification 7 was not used	0	1	0000	0001	
48 49 50	31 32	Standard Timing Identification 7 was not used	0	1	0000	0001	
48 49	31		_				

Ver. 1.0 Mar,28, 2006 25 / 27





Product Specification

APPENDIX A. Enhanced Extended Display Identification Data (EEDID™) 2/3(TBD)

Section Check Ch	Byte#	Byte#		Va	lue	Va	alue	
Section Sect		-	Field Name and Comments	_				
56 37 Pixel Clock/10,000 (MSB) / 1280 x 900 @ 60½ pixel clock = 7 1 8 0.001 1011 56 33 Horiz craftal Blanking = 160 pixels			D: 1 O: 1 (40 000 (1 OD)	·		, -	,	
96								
Second Color					_			
S8								
Section Sect								
60 3C Vertical Blanking = 23 lines 1 7 0001 0111 17 17 0001 0111 17 17								
61 30				-				5
62 3E					_			
63 3F								_
64 40 Vertical Sync Offset = 2 lines : Sync Width = 6 lines 2.6 0010 0110 65 41 Horizontal Vertical Sync Offset Width upper 2bits = 0 0 0000 0000 66 42 Horizontal Wertical Image Size = 331,2mm 4 B 0100 1011 67 43 Vertical Image Size = 207,0mm C F 1100 0111 68 44 Horizontal Border = 0 0 0 0000 0000 69 45 Horizontal Border = 0 0 0 0000 0000 70 46 Vertical Border = 0 0 0 0000 0000 71 47 Non-inertaced Normal display, no stereo, Digital separate sync, H/V pol ne 1 1 9 0001 1001 72 48 Pixel Clock (10,000 (MSB) / 1280 x 800 @ 60Hz pixel clock = 71 1 B 0001 1001 73 49 Pixel Clock (10,000 (MSB) / 1280 x 800 @ 60Hz pixel clock = 71 B 0001 1011 74 40 Horizontal					_			
65 41 Horizontal Vertical Sync Offset/Width upper 2bits = 0 0 0 0000 0000 66 42 Horizontal Image Size = 331.2mm 4 B 0100 1011 67 43 Vertical Image Size = 207.0mm C F 1100 1111 68 44 Horizontal & Vertical Brages Size 1 0 0000 0000 70 46 Vertical Border = 0 0 0 0000 0000 71 47 Non-inheridaced Normal display, no stereo, Digital separate sync. HV point 1 9 0001 1001 72 48 Pixel Clock/ 10,000 (MSB) / 1280 x 800 @60Hz pixel clock = 7 1 B 0001 1011 73 49 Pixel Clock/ 10,000 (MSB) / 1280 x 800 @60Hz pixel clock = 7 1 B 0001 1011 74 4 Horizontal Altive = 1280 pixels A 0 1010 000 75 4B Horizontal Stanking = 281 pixels A 0 1010 000 76 4C				_	_			#1
66								
67					_			
68								
68 45 Horizontal Border = 0 0 0 0 0000 0000 00000 0000 70 46 Vertical Border = 0 0 0 0 0000 0000 00000 0000 71 47 Non-interfaced, Nomal display, no stereo, Digital separate sync, H/V pol nd 1 9 0001 1001 1 9 0001 1001 72 48 Pixel Clock/10,000 (MSB) / 1280 x 800 @ 60Hz pixel clock = 7 1 B 0001 1011 0 B 1100 1011 73 49 Pixel Clock/10,000 (MSB) / 1280 x 800 @ 60Hz pixel clock = 7 1 B 0001 1011 0 0 0000 0000 75 48 Horizontal Active = 1280 pixels 0 0 0 0000 0000 75 48 Horizontal Active = 1800 pixels A 0 1010 0000 76 4C Horizontal Active = Horizontal Blanking = 1280 : 160 5 0 0101 0000 5 0 0101 0000 77 4D Vertical Active : Horizontal Blanking = 800 : 23 3 3 0 0011 0000 111 0000 78 4E Vertical Active : Vertical Blanking = 800 : 23 3 3 0 0011 0000 111 0000 80 50 Horizontal Sync, Offset = 48 pixels 3 0 0011 0000 81 51 Horizontal Sync, Offset = 2 lines : Sync Width = 6 lines 2 0 0010 0000 82 52 Vertical Sync Offset 2 lines : Sync Width = 6 lines 2 6 0010 0110 83 53 Horizontal & Vertical Sync Offset 2 lines : Sync Width = 6 lines 2 6 0010 0110 85 55 Vertical Image Size = 307.0mm 0 F 1100 1111 86 56 Horizontal & Vertica								
70				<u> </u>				
71				_		_		
72				-				
73				÷	_			
74				-	STREET, SQUARE,			
75				_				
76					_			
77								
78			-					
Timing Size Size					_			5
80 50								1
81 51 Horizontal Sync Pulse Width = 32 pixels 2 0 0010 0000 #2 82 52 Vertical Sync Offset = 2 lines : Sync Width = 6 lines 2 6 0010 0110 83 53 Horizontal Vertical Sync Offset/Width upper 2bits = 0 0 0 0000								
82 52 Vertical Sync Offset = 2 lines : Sync Width = 6 lines 2 6 0010 0110 83 53 Horizontal Vertical Sync Offset/Width upper 2bits = 0 0 0 0000 0000 84 54 Horizontal Image Size = 237.0mm 4 B 0100 1011 85 55 Vertical Image Size = 207.0mm C F 1100 1111 86 56 Horizontal & Vertical Image Size 1 0 000 0000 87 57 Horizontal Border = 0 0 0 0000 0000 88 58 Vertical Border = 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 <								
83 53 Horizontal Vertical Sync Offset/Width upper 2bits = 0 0 0 0000 0000 84 54 Horizontal Image Size = 331.2mm 4 B 0100 1011 85 55 Vertical Image Size = 207.0mm C F 1100 1111 86 56 Horizontal Border = 0 0 0 0000 0000 87 57 Horizontal Border = 0 0 0 0000 0000 88 58 Vertical Border = 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 11111 1110 94 5E Flag <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>#2</td>					_			#2
84 54 Horizontal Image Size = 331.2mm 4 B 0100 1011 85 55 Vertical Image Size = 207.0mm C F 1100 1111 86 56 Horizontal & Vertical Image Size 1 0 0001 0000 87 57 Horizontal Border = 0 0 0 0000 0000 88 58 Vertical Border = 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 11111 1110 94 5E Flag 0 0 0 0 0 95 5F Dell P/N 1st Character = C					_			
85 55 Vertical Image Size = 207.0mm C. F. 1100 1111 86 56 Horizontal & Vertical Image Size 1 0 0001 0000 87 57 Horizontal Border = 0 0 0 0000 0000 0000 88 58 Vertical Border = 0 0 0 0000 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 0000 90 5A Flag 0 0 0000 0000 0000 91 5B Flag 0 0 0000 0000 0000 92 5C Flag 0 0 0000 0000 0000 93 5D Dummy Descriptor F E E 1111 1110 1110 94 5E Flag 0 0 0000 0000 9000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
86 56 Horizontal & Vertical Image Size 1 0 0001 0000 87 57 Horizontal Border = 0 0 0 0 0000 0000 88 58 Vertical Border = 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 001 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 3								
87 57 Horizontal Border = 0 0 0 00000 0000 88 58 Vertical Border = 0 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character =C 4 3 0100 0011 96 60 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character								
88 58 Vertical Border = 0 0 0 0000 0000 89 59 Module "A" Revision = 00 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 100 64 LCD Supplier EEDID Revision # = 0.1 0				<u> </u>	_			
89 59 Module "A" Revision = 00 0 0 0 0000 0000 90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 5th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 #3 101 64 LCD Supp				_	_			
90 5A Flag 0 0 0000 0000 91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 4 3								
91 5B Flag 0 0 0000 0000 92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N =								
92 5C Flag 0 0 0000 0000 93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 5 3 5 0011 0101 102 66 Manufacturer P/N = 4 3 4 0011 0100 104 68 M								
93 5D Dummy Descriptor F E 1111 1110 94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0100 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
94 5E Flag 0 0 0000 0000 95 5F Dell P/N 1st Character = C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = 0 3 0 0011 0000								
95 5F Dell P/N 1st Character =C 4 3 0100 0011 96 60 Dell P/N 2nd Character = D 4 4 0100 0100 97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 #3 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 #3 101 65 Manufacturer P/N = 1 3 1 0011 0001 #3 102 66 Manufacturer P/N = 5 3 5 0011 0101 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = 0 3 0 0011 0000								
96 60 DelI P/N 2nd Character = D 4 4 0100 0100 97 61 DelI P/N 3nd Character = 5 3 5 0011 0101 98 62 DelI P/N 4th Character = 1 3 1 0011 0001 99 63 DelI P/N 5th Character = 6 3 6 0011 0110 #3 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 #3 101 65 Manufacturer P/N = 1 3 1 0011 0001 #3 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								
97 61 Dell P/N 3nd Character = 5 3 5 0011 0101 Timing Description 98 62 Dell P/N 4th Character = 1 3 1 0011 0001 Description 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 #3 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 #3 101 65 Manufacturer P/N = 1 3 1 0011 0001 0001 1001								Detailed
98 62 Dell P/N 4th Character = 1 3 1 0011 0001 Description 99 63 Dell P/N 5th Character = 6 3 6 0011 0110 #3 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								1
99 63 Dell P/N 5th Character = 6 3 6 0011 0110 #3 100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								
100 64 LCD Supplier EEDID Revision # = 0.1 0 1 0000 0001 101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000					<u> </u>			
101 65 Manufacturer P/N = 1 3 1 0011 0001 102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								#5
102 66 Manufacturer P/N = 5 3 5 0011 0101 103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								
103 67 Manufacturer P/N = 4 3 4 0011 0100 104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000				-	<u> </u>			
104 68 Manufacturer P/N = W 5 7 0101 0111 105 69 Manufacturer P/N = 0 3 0 0011 0000								
105 69 Manufacturer P/N = 0 3 0 0011 0000								
100 Gr.					1			
107 6B P/N(If <13 char, then terminate with ASCII code 0Ah, set remail 0 A 0000 1010					Δ			

26 / 27 Ver. 1.0 Mar,28, 2006







Product Specification

APPENDIX A. Enhanced Extended Display Identification Data (EEDID™) 3/3(TBD)

Byte#	Byte#	Field Name and Comments			Va	lue	
(decimal)	(HEX)	rield Name and Comments	(HE	ΞX)	(bir	ary)	
108	6C	Flag	0	0	0000	0000	
109	6D	Flag	0	0	0000	0000	
110	6E	Flag	0	0	0000	0000	
111	6F	Data Type Tag: ASCII String	F	Ε	1111	1110	
112	70	Flag	0	0	0000	0000	
113	71	SMBUS Value = 10 nits	3	0	0011	0000	
114	72	SMBUS Value = 17 nits	3	F	0011	1111	Detailed
115	73	SMBUS Value = 24 nits	4	6	0100	0110	Timing
116	74	SMBUS Value = 30 nits	5	5	0101	0101	Description
117	75	SMBUS Value = 60 nits	7	Α	0111	1010	#4
118	76	SMBUS Value = 110 nits	Α	В	1010	1011	
119	77	SMBUS Value = 150 nits	D	6	1101	0110	
120	78	SMBUS Value = Max (Typically = FFh)	F	F	1111	1111	
121	79	Number of LVDS receiver chips = 1 or 2	0	1	0000	0001	
122	7A	BIST Enable: Yes = '01' No = '00'	0	1	0000	0001	
123	7B	char, then terminate with ASCII code 0Ah, set remaining cha		Α	0000	1010	
124	7C	(If<13 char, then terminate with ASCII code 0Ah)	2	0	0010	0000	
125	7D	(If<13 char, then terminate with ASCII code 0Ah)	2	0	0010	0000	
126	7E	Extension flag = 00	0	0	0000	0000	Extension Flag
127	7F	Checksum	4	D	0100	1101	Checksum